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RESULT 11
 US-09-303-232-3
 ; Sequence 3, Application US/09303232A
 ; GENERAL INFORMATION:
 ; APPLICANT: Bayer Aktiengesellschaft
 ; TITLE OF INVENTION: Nucleic Acids which encode
 ; TITLE OF INVENTION: insect acetylcholine receptor subunits
 ; FILE REFERENCE: Le A 33 020-Foreign Countries
 ; CURRENT APPLICATION NUMBER: US/09/303,232A
 ; CURRENT FILING DATE: 1999-04-30
 ; EARLIER APPLICATION NUMBER: DE 198 19 829.9
 ; EARLIER FILING DATE: 1998-05-04
 ; NUMBER OF SEQ ID NOS: 6
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO 3
 ; LENGTH: 3700
 ; TYPE: DNA
 ; ORGANISM: Heliothis virescens
 ; FEATURE:
 ; NAME/KEY: CDS
 ; LOCATION: (335)..(1822)
 US-09-303-232-3

Query Match 22.2%; Score 512.8; DB 17; Length 3700;
 Best Local Similarity 62.5%; Pred. No. 2.4e-128;
 Matches 878; Conservative 0; Mismatches 502; Indels 24; Gaps 4;

Qy	925	ggatatcatgaaaagagactgttacacgatcttttggatccttataatacactagaacgt	984
Db	425	gggtaccacgagaagcggctactgcaccacctattggaccactacaacgtactggagagg	484
Qy	985	cccgttctcaatgaatcggaacccggttacaattaagctttggttaactttaatgcaaatt	1044
Db	485	cccgctcgtaacgagagcgacccgctgcagctctccttcggcctcacgctcatgcagatc	544
Qy	1045	atcgatgtggagcagaaaaatcaattgctagtactactaatgtgtggttaaaactggagtgg	1104
Db	545	atcgacgtggacgagaagaaccagcttttaataacaaacatctggctaaaactagagtgg	604
Qy	1105	aacgacatgaatctccgctggaacacctccgactatggcggaggttaaggatctgcgaata	1164
Db	605	aatgatatgaacttgaggtggaacacttcagatttcggcggggcctaaagatttaagagtg	664
Qy	1165	ccgcccgcacgcatctggaagccggacgtgctgatgtacaacagtcggatgagggattt	1224
Db	665	ccaccccacagactatggaaccagacgtccttatgtacaacagcgcggacgaagggttc	724

Db 1799 tccgcgccacacatcatcgtgctcg 1822

Page 14

ns-09-303-232-5-copy-95-1597.rmp

RESULT 9

US-09-303-232-1

; Sequence 1, Application US/09303232A

; GENERAL INFORMATION:

; APPLICANT: Bayer Aktiengesellschaft

; TITLE OF INVENTION: Nucleic Acids which encode

; TITLE OF INVENTION: insect acetylcholine receptor subunits

; FILE REFERENCE: Le A 33 020-Foreign Countries

; CURRENT APPLICATION NUMBER: US/09/303,232A

; CURRENT FILING DATE: 1999-04-30

; EARLIER APPLICATION NUMBER: DE 198 19 829.9

; EARLIER FILING DATE: 1998-05-04

; NUMBER OF SEQ ID NOS: 6

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 1

; LENGTH: 2886

; TYPE: DNA

; ORGANISM: Drosophila melanogaster

; FEATURE:

; NAME/KEY: CDS

; LOCATION: (372)..(2681)

US-09-303-232-1

Query Match 27.4%; Score 411.4; DB 17; Length 2886;

Best Local Similarity 68.8%; Pred. No. 2.4e-100;

Matches 565; Conservative 0; Mismatches 256; Indels 0; Gaps 0;

Tue Jul 24 08:40:55 2001

us-09-303-232-5_

Qy 57 aggtctcacgagaagagactctgaacgcgttgctggcgaaactacaacaccctggagcg 116
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Qy 117 accggtggccaacgagagcgaaaccgctagaggctcaggttcggcttgaccttcagcaaat 176
Db 1355 tcccggttctcaatgaatcggaaccggttacaattaagctttgggttaactttaatgcaaat 1414
Qy 177 cattgacgtggacgagagaagaatcaactacttataaccaatatatggctgctggtggagtg 236
Db 1415 tatcgatgtggacgagaaaaatcaattgctagtactaatgtgtgggttaaaactggagtg 1474
Qy 237 gaatgactacaacctgaggtggaacgacagcgagtatggcggggtaacggacctcaggat 296
Db 1475 gaacgacatgaattcccgctggaaacacctccgactatggcggaggttaaggatctgcgaat 1534
Qy 297 cagcccaacaagtgtgtgaagcgggacgtcccttatgtataatagtgtgacgaggggtt 356
Db 1535 accgcccgcacgcacatctggaagcgggacgtgctgatgtacaacagtgccgatgagggatt 1594
Qy 357 tgacggggacctaccagaccaacgtggtgggtcagaagcggggcaggtgcctgtacgtgcc 416
Db 1595 tgacgggcacctaccagacgaacgtggtgggtgcggaacaacggcgtcggtgtctatacgttcc 1654
Qy 417 acctggcatattcaagagcacatgcaagatggacatcgcggtggttcccttcgacgacca 476
Db 1655 gcgggggatcttcaagtcgacgtgcgaagatcgacatcacgttggttcccttcgatgacca 1714
Qy 477 acactgtgatatgaagttcggtagctggacatatgacggcaatcagttggatctggtgct 536
Db 1715 gcggtgcgagatgaagttcggcagttggacctacgacggattccagctggatttacaatt 1774
Qy 537 aaaagatgaggcaggcggcgatctatcggaacttcatacaaatggggagtggtatctaat 596
Db 1775 acaagatgaaactggcggtgatatacagcagttacgtgctcaacggcgagtgggaaactact 1834
Qy 597 aggaatgccaggcaaaaagacacaataacatacgcgtgctgcccgagccctacgtgga 656
Db 1835 ggggtgtgcccgcaaacgtaacgagatctattacaactgctgccggaaaccttatataga 1894
Qy 657 cgtcaccttcaccatcatgataagaagacgaacctgtactacttcttcaacctgatcgt 716
Db 1895 catcaccttcgccatcatcatccgccgacgaacctgtactatttcttcaacctgatcat 1954
Qy 717 cccgtgcgtgctgatctcatcgatggcactctcggcttcacactgccaccagactccgg 776
Db 1955 accttggtgactgattgcctcatggccttgctcggaattacacctgccgccagattccggg 2014
Qy 777 agagaaaactcacacttgagtgcaactattcttctatcgctgacgggttctctcaacctggt 836
Db 2015 tgaaaaattatcgctgggtgttaccatcttgctctcgctgacgggtgtttotgaatatggt 2074
Qy 837 agccgagacacctgccacaggtctccgacgctatccccctgt 877
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US-09-303-232-3
 : Sequence 3, Application US/09303232A
 : GENERAL INFORMATION:
 : APPLICANT: Bayer Aktiengesellschaft
 : TITLE OF INVENTION: Nucleic Acids which encode
 : FILE REFERENCE: Le A 33 020-Foreign Countries
 : CURRENT APPLICATION NUMBER: US/09/303,232A
 : CURRENT FILING DATE: 1999-04-30
 : EARLIER APPLICATION NUMBER: DE 198 19 829.9
 : EARLIER FILING DATE: 1998-05-04
 : NUMBER OF SEQ ID NOS: 6
 : SOFTWARE: Patentln Ver. 2.1
 : SEQ ID NO 3
 : LENGTH: 3700
 : TYPE: DNA
 : ORGANISM: Heliothis virescens
 : FEATURE:
 : NAME/KEY: CDS
 : LOCATION: (335)..(1822)
 : US-09-303-232-3

Query Match 38.3%; Score 575; DB 17; Length 3700;
 Best Local Similarity 64.6%; Pred. No. 1,1e-144;

Matches 929; Conservative 0; Mismatches 460; Indels 48; Gaps 3;

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QY 64 caccgagaagagactcctcgtgaacgcgtgtgtgagcgaatacaacaccttgagagcgacggtg 123
Db 431 caccgagaagcggtactcgtcacaccactatttggaccatacaacgttactgagagccggtc 490
QY 124 gccacgagagcggaacccggttagaggttcaggttctggtctgacctgacgaataatctgac 183
Db 491 gtcaacgagagcgacccgctgcgtctcctctgacctgacgcacatgacatcatcgac 550
QY 184 gtgacgagagagatcaactactataacaaatataatgctgtcgtgtgagtgagtgagac 243
Db 551 gtgagagagagagacacgtctttaaatacaaacatctgtctaaactaagtgagtgagac 610
QY 244 taacaactgagtgagagacagcgagtgatgtgagtgagtgagtgagtgagtgagtgagtgag 610
Db 611 atggaacttgagtgagagacacacacacacacacacacacacacacacacacacacacacac 303
QY 304 aacaaagtgtgagagacgagacgctcctatgtataatagtgagagagagagagagagagagag 670
Db 671 caccgacatctggaacacacacacacacacacacacacacacacacacacacacacacacacac 363
QY 364 aactacacagacacacacacacacacacacacacacacacacacacacacacacacacacac 730
Db 731 acgtatccacacacacacacacacacacacacacacacacacacacacacacacacacacac 423
QY 424 atattcaagagacacacacacacacacacacacacacacacacacacacacacacacacac 790
Db 791 atcttcaagagacacacacacacacacacacacacacacacacacacacacacacacacac 483
QY 484 gatataagagtgagtgagtgagtgagtgagtgagtgagtgagtgagtgagtgagtgagtgag 850
Db 851 gagatgaagtgagtgagtgagtgagtgagtgagtgagtgagtgagtgagtgagtgagtgag 543
QY 544 gagagagagcgagtgagtgagtgagtgagtgagtgagtgagtgagtgagtgagtgagtgag 910
Db 911 gagagagagcgagtgagtgagtgagtgagtgagtgagtgagtgagtgagtgagtgagtgag 603
QY 604 cgaagcacaacaaacacacacacacacacacacacacacacacacacacacacacacacacac 970
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QY 664 ttcaacacacacacacacacacacacacacacacacacacacacacacacacacacacacacac 1030
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QY 724 gtgctgacacacacacacacacacacacacacacacacacacacacacacacacacacacac 1090
Db 1091 gtgctgacacacacacacacacacacacacacacacacacacacacacacacacacacacac 783
QY 784 ctcaacacacacacacacacacacacacacacacacacacacacacacacacacacacacacac 1150
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Db 1271 ttcaatgagtgagtgagtgagtgagtgagtgagtgagtgagtgagtgagtgagtgagtgag 963
QY 964 gctgatatatacagaaatgcacacacacacacacacacacacacacacacacacacacacacac 1330
Db 1331 gcaagacacacacacacacacacacacacacacacacacacacacacacacacacacacacacac 1023
QY 1024 atactgcgaatgcagagcgagagagagagagagagagagagagagagagagagagagagagag 1390
Db 1024 gtgctgagtgagtgagtgagtgagtgagtgagtgagtgagtgagtgagtgagtgagtgag 1083
QY 1083 gtgctgagtgagtgagtgagtgagtgagtgagtgagtgagtgagtgagtgagtgagtgagtgag 1447
Db 1083 gtgctgagtgagtgagtgagtgagtgagtgagtgagtgagtgagtgagtgagtgagtgagtgag 1143
QY 1143 gtgctgagtgagtgagtgagtgagtgagtgagtgagtgagtgagtgagtgagtgagtgagtgag 1507
Db 1143 gtgctgagtgagtgagtgagtgagtgagtgagtgagtgagtgagtgagtgagtgagtgagtgag 1819

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Comparison of SEQ ID NOS: 325

US-09-303-232-3
Sequence 3, Application US/09303232A
GENERAL INFORMATION:
APPLICANT: Bayer Aktiengesellschaft
TITLE OF INVENTION: Nucleic Acids which encode
insect acetylcholine receptor subunits
FILE REFERENCE: Ia A 33 020-foreign Countries
CURRENT APPLICATION NUMBER: US/09/303, 232A
CURRENT FILING DATE: 1999-04-30
EARLIER APPLICATION NUMBER: DE 198 19 829.9
EARLIER FILING DATE: 1998-05-04
NUMBER OF SEQ ID NOS: 6
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 3
LENGTH: 3700
TYPE: DNA
ORGANISM: Heliothis virescens
FEATURE:
NAME/KEY: CDS
LOCATION: (335)..(1822)
US-09-303-232-3

Query Match 38.3%; Score 575; DB 17; Length 3700;
Best Local Similarity 64.6%; Pred. No. 1, 1e-144;

Matches 929; Conservative 0; Mismatches 460; Indels 48; Gaps 3;

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QY 64 cagcagaagagactcctcgaacgcgtgtgctgcgaactacaaccctggagcgacggtg 123
DB 431 cagcagaagagactcctcgaacgcgtgtgctgcgaactacaaccctggagcgacggtg 123
QY 124 gccacagagcgcaacgcgtgtgctgcgaactacaaccctggagcgacggtg 490
DB 491 gccacagagcgcaacgcgtgtgctgcgaactacaaccctggagcgacggtg 490
QY 184 gtcgacgagagagacacacttaataacacacacacacacacacacacacacacacac 550
DB 551 gtcgacgagagagacacacttaataacacacacacacacacacacacacacacacac 550
QY 244 tacacactgaggtggaacgacacacacacacacacacacacacacacacacacacac 610
DB 611 atgacactgaggtggaacacacacacacacacacacacacacacacacacacacacac 610
QY 304 aacacagttggtggaacgcgtgtgctgcgaactacaaccctggagcgacggtg 670
DB 671 cagcagacactggaacgcgtgtgctgcgaactacaaccctggagcgacggtg 670
QY 364 acctacacagacacacacacacacacacacacacacacacacacacacacacacac 730
DB 731 acgtatccacacacacacacacacacacacacacacacacacacacacacacacacac 730
QY 424 atattcagaagacacacacacacacacacacacacacacacacacacacacacacac 790
DB 791 atcttcaagacacacacacacacacacacacacacacacacacacacacacacacacac 790
QY 484 gatatgaagtgtggtggtggtggtggtggtggtggtggtggtggtggtggtggtggtg 850
DB 851 gatatgaagtgtggtggtggtggtggtggtggtggtggtggtggtggtggtggtggtg 850
QY 544 gagcgaagcggtggtggtggtggtggtggtggtggtggtggtggtggtggtggtggtg 910
DB 911 gagcgaagcggtggtggtggtggtggtggtggtggtggtggtggtggtggtggtggtg 910
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DB 1031 ttcacacacacacacacacacacacacacacacacacacacacacacacacacacacac 1030
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DB 721 gtcgtgacacacacacacacacacacacacacacacacacacacacacacacacacac 1090
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DB 1151 ctaacacacacacacacacacacacacacacacacacacacacacacacacacacacac 1150
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DB 1211 accctgacacacacacacacacacacacacacacacacacacacacacacacacacac 1210
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DB 1271 ttcacacacacacacacacacacacacacacacacacacacacacacacacacacacac 1270
QY 964 gctgacacacacacacacacacacacacacacacacacacacacacacacacacacacac 1330
DB 1331 gctgacacacacacacacacacacacacacacacacacacacacacacacacacacacac 1330
QY 1024 atactgacacacacacacacacacacacacacacacacacacacacacacacacacacacac 1390
DB 1021 atactgacacacacacacacacacacacacacacacacacacacacacacacacacacacac 1390
QY 1084 gtcgtgacacacacacacacacacacacacacacacacacacacacacacacacacacacac 1447
DB 1081 gtcgtgacacacacacacacacacacacacacacacacacacacacacacacacacacacac 1447
QY 1144 gatattgacacacacacacacacacacacacacacacacacacacacacacacacacacacac 1500
DB 1141 gatattgacacacacacacacacacacacacacacacacacacacacacacacacacacacac 1500
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DB 1201 aattgacacacacacacacacacacacacacacacacacacacacacacacacacacacac 1560
QY 1264 tccacacacacacacacacacacacacacacacacacacacacacacacacacacacac 1616
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QY 1324 ctgacacacacacacacacacacacacacacacacacacacacacacacacacacacac 1672
DB 1321 ctgacacacacacacacacacacacacacacacacacacacacacacacacacacacac 1672
QY 1384 atcagcagacacacacacacacacacacacacacacacacacacacacacacacacacac 1702
DB 1381 atcagcagacacacacacacacacacacacacacacacacacacacacacacacacacac 1702
QY 1444 ctcttcaacacacacacacacacacacacacacacacacacacacacacacacacacacacac 1762
DB 1441 ctcttcaacacacacacacacacacacacacacacacacacacacacacacacacacacacac 1762
QY 1504 gtcgtgacacacacacacacacacacacacacacacacacacacacacacacacacacacac 1819
DB 1501 gtcgtgacacacacacacacacacacacacacacacacacacacacacacacacacacacac 1819

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Comparison of SEQ ID NOS: 1 & 3

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RESULT 11
US-09-303-232-3
; Sequence 3, Application US/09303232A
; GENERAL INFORMATION:
; APPLICANT: Bayer Aktiengesellschaft
; TITLE OF INVENTION: Nucleic Acids which encode
; TITLE OF INVENTION: insect acetylcholine receptor subunits
; FILE REFERENCE: Le A 33 020-Foreign Countries
; CURRENT APPLICATION NUMBER: US/09/303,232A
; CURRENT FILING DATE: 1999-04-30
; EARLIER APPLICATION NUMBER: DE 198 19 829.9
; EARLIER FILING DATE: 1998-05-04
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 3700
; TYPE: DNA
; ORGANISM: Heliothis virescens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (335)..(1822)
US-09-303-232-3

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Query Match          22.2%; Score 512.8; DB 17; Length 3700;
Best Local Similarity 62.5%; Pred. No. 2.4e-128;
Matches 878; Conservative 0; Mismatches 502; Indels 24; Gaps 4;

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Qy	925	ggatatcatgaaaagagactgttacacgatcttttggatccttataatacactagaaagt	984	21
Db	425	gggtaccacgagaagcggctactgcaccacctattggaccactacaacgtactggagagg	484	
Qy	985	cccgttctcaatgaatcggaccggttacaattaagctttggttaactttaatgcaaatt	1044	21
Db	485	cccgtcgtcaacgagagcgaccgctgcagctctccttcggcctcacgctcatgcagatc	544	
Qy	1045	atcgatgtggagcagaaaaatcaattgctagtcactaatgtgtggttaaaactggagtg	1104	24
Db	545	atcgacgtggagcagagaagaaccagcttttaataacaaacatctggctaaaactagagtg	604	
Qy	1105	aacgacatgaatctccgctggaaacacctccgactatggcggagtttaaggatctgcgaata	1164	30
Db	605	aatgatatgaacttgaggtggaacacttcagatttcgcggggtcaaagatttaagagtg	664	
Qy	1165	ccgccgcacgcacatctggaagccggacgtgctgatgtacaacagtcggatgagggattt	1224	35
Db	665	ccacccacagactatggaaaccagacgtccttatgtacaacagcgcggacgaagggttc	724	

Dbb 1799 tccgcgccacatcatcgtgtcg 1822

Comparison of SEQ ID NOS: 1 & 5

RESULT 9
US-09-303-232-1
; Sequence 1, Application US/09303232A
; GENERAL INFORMATION:
; APPLICANT: Bayer Aktiengesellschaft
; TITLE OF INVENTION: Nucleic Acids which encode
; TITLE OF INVENTION: insect acetylcholine receptor subunits
; FILE REFERENCE: Le A 33 020-Foreign Countries
; CURRENT APPLICATION NUMBER: US/09/303,232A
; CURRENT FILING DATE: 1999-04-30
; EARLIER APPLICATION NUMBER: DE 198 19 829.9
; EARLIER FILING DATE: 1998-05-04
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 2886
; TYPE: DNA
; ORGANISM: Drosophila melanogaster
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (372)..(2681)
US-09-303-232-1

Query Match 27.4%; Score 411.4; DB 17; Length 2886;
Best Local Similarity 68.8%; Pred. No. 2.4e-100;
Matches 565; Conservative 0; Mismatches 256; Indels 0; Gaps 0;

us-09-303-232-5

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Qy	117	accgggtggccaacgagagcgaaacgcgtagaggtcaggttcggcttgacctgacgcaaat	176
Db	1355	tcccggttctcaatgaatcggaaccggttacaattaagctttgggttaactttaatgcaaat	1414
Qy	177	cattgacgtggagcagagaagaatcaactacttataaccaatatatggctgtcgttggagtg	236
Db	1415	tatcgatgtggagcagaaaaatcaattgctagtgcactaatgtgtggttaaaactggaagtg	1474
Qy	237	gaatgactacaacctgaggtggaacgacagcgagtatggcggggtcaaggacctcaggat	296
Db	1475	gaacgacatgaatctccgctggaacacctccgactatggcggaggttaaggatctgcgaat	1534
Qy	297	cacgccaacaagtgttggaagccggagcgtccttatgtataatagtgcctgacgaggggtt	356
Db	1535	accgcgcgcatcgcatctggaagccggagcgtgctgatgtacaacagtgccgatgaaggatt	1594
Qy	357	tgacgggacctaccagaccaacgtgggtggtcagaagcggcgagttgcctgtacgtgcc	416
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Qy	417	acctggcatattcaagagcacatgcaagatggacatcgcgtgggttcccttcgacgacca	476
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Qy	477	acactgtgatatgaagttcggtagctggacatatgacggcaatcagttggaatcgtgtgt	536
Db	1715	gcggtgcgagatgaagttcggcagttggacctacgacggattccagctggattacaatt	1774
Qy	537	aaaagatgaggcaggcgcgatctatcgcgacttcataacaaatggggagtggtatctaat	596
Db	1775	acaagatgaaactggcgggtgatcagcagttacgtgctcaacggcgagtggaactact	1834
Qy	597	aggaatgccaggcaaaaagaacacaataacatacgcgtgtgctgcccgagccctacgtgga	656
Db	1835	gggtgtgcccgcaaacgtaacgagatctattacaactgctgcccggaacccctatataga	1894
Qy	657	cgtaaccttcaccatcatgataagaagacgaaccttgtactacttcttcaacctgatcgt	716
Db	1895	catcaaccttcgcatcatcatccgccgacgaacactgtactatttcttcaacctgatcat	1954
Qy	717	cccgtgcgtgctgatctcatcgatggcactcctcggttcacactgccacagactccgg	776
Db	1955	accttgtgtactgattgctccatggccttgctcggaattcaccctgccgcagattccgg	2014
Qy	777	agagaaactcacacttgagtgactattcttctatcgctgacgggtgttccctcaacctggt	836
Db	2015	tgaaaaattatcgctgggtgttaccatcttgctctcgctgaccggtgttctgaaatggt	2074
Qy	837	agccgagacctgccacaggtctccgacgctatccccctgt	877
		ggagacaatcccggtcacttccgatgcggtgcattgt	2115